

Pending Claims

132. A method for inducing myelination of a neural cell by a glial cell, said method comprising contacting said glial cell with an amount of a polypeptide which comprises an epidermal growth factor-like domain, wherein said epidermal growth factor-like domain comprises an amino acid sequence which is identical to an amino acid sequence encoded by a GGF/p185 erb B2 ligand gene, and wherein said amino acid sequence comprises an amino acid sequence encoded by a nucleic acid sequence selected from the group consisting of:

SEQ ID NO: 155 (EGFL2);

SEQ ID NO: 156 (EGFL3);

SEQ ID NO: 157 (EGFL4);

SEQ ID NO: 158 (EGFL5);

SEQ ID NO: 159 (EGFL6); and

amino acids 54-103 encoded by SEQ ID NO: 150.

139. The method of claim 132 or 141, wherein said method further comprises contacting said cell with a polypeptide which binds the p185 erb B2 receptor.

140. The method of claim 132 or 141, wherein said polypeptide is a recombinant polypeptide with glial cell mitogenic activity.

141. A method for inducing myelination of a neural cell by a glial cell, said method comprising contacting said glial cell with an amount of a polypeptide which comprises an epidermal growth factor-like domain, wherein said epidermal growth factor-like domain comprises an amino acid sequence which is identical to an amino acid sequence encoded by a GGF/p185 erb B2 ligand gene, and wherein said amino acid sequence comprises the amino acid sequence provided in SEQ ID NO: 152, wherein said contacting with said polypeptide is sufficient to induce myelination of said neural cell by said glial cell.